

Amendments to the Claims

1. (Currently Amended) A software defined radio comprising:
a plurality of layered communication schemes;
a configuration system for selectively enabling one of the plurality of layered communication schemes comprising a processor, a smartcard reader and a memory;
wherein a one of the plurality of communication schemes is selected and enabled by the processor based on configuration information from a user's smartcard, and
wherein said configuration information includes at least a security authorization, and
wherein the selection and enabling of the communication scheme is a function of the security status of the user.
2. (Original) The software defined radio according to claim 1, wherein the plurality of communication schemes includes a plurality of communication protocols.
3. (Original) The software defined radio according to claim 1, wherein the plurality of communication schemes include a plurality of modulation/demodulation techniques.
4. (Original) The software defined radio according to claim 1, wherein the plurality of communication schemes include a plurality of coding/decoding techniques.
5. (Original) The software defined radio according to claim 1, wherein the information retrieved from the smart card comprises a communication scheme.
6. (Cancelled).
7. (Original) The software defined radio according to claim 1, comprising a programmable A/D converter or a programmable D/A converter.

8. (Original) The software defined radio according to claim 1, comprising a programmable digital signal processor.

9. (Previously Presented) The software defined radio according to claim 7, wherein a program for driving the programmable A/D converter or programmable D/A converter is stored in the memory.

10. (Previously Presented) The software defined radio according to claim 8, wherein a program for driving the programmable digital signal processor is stored in the memory.

11. (Currently Amended) In a software defined radio ("SDR"), the SDR comprising layered communication information and plural communication protocols, a method of configuring the SDR, the improvement comprising the steps of:

providing a smartcard containing configuration information;

retrieving the configuration information from the smartcard;

validating access authorization from the configuration information; [[and,]]

configuring the SDR based on the configuration information, wherein said configuration information includes at least a security authorization; and

selecting the layered communication information and plural communication protocols as a function of a user's access authorization.

12. (Cancelled).

13. (Cancelled).

14. (Previously Presented) The method of claim 11, wherein the step of configuring further comprises selecting and executing stored software modules for driving generic radio hardware according to the configuration information.

15. (Previously Presented) The method of claim 14, wherein the generic radio hardware is selected from the group consisting of microprocessors, modulators/demodulators, and digital signal processors.

16. (Previously Presented) In a software defined radio ("SDR") comprising multiple link-layered communication protocols, a method for configuring the SDR, the improvement comprising retrieving configuration instructions from a smartcard containing a specific configuration, wherein said configuration instructions includes at least a security authorization, and selecting multiple link-layered communication protocols as a function of a user's security authorization.

17. (Original) The method of claim 16, wherein the specific configuration includes, modulation/demodulation type, digital processing and operational protocols.

18. (Previously Presented) The method of claim 16, wherein the specific configuration is selected from the group consisting of AMSSB, FM, PSK, QPSK, QAM, FSK, TDMA, CDMA, FDMA, AMPS, and GSM.

19. (Original) A software defined radio comprising a RF Section, a IF section and a baseband section, wherein the IF section and the baseband sections are programmable, a plurality of software modules containing programs for the IF section and the baseband section, the improvement comprising a smart card reader, wherein information retrieved by the smart card reader designates the respective programs for the IF section and the

baseband section, and wherein said information is a function of service requirements, mission requirements and security status of a user.

Claims 20-22 (Cancelled).

23. (Original) The software defined radio of claim 19, wherein programs are selected from the group enabling AMSSB, FM, PSK, QPSK, QAM, FSK, TDMA, CDMA, FDMA, AMPS, and GSM configurations.

24. (Previously Presented) A method for configuring a radio with software for communicating in a wireless environment, the method comprising the steps of: receiving configuration information from a smart card in communication with the radio; configuring the radio in accordance with the configuration information and verifying current validity of the ~~Smartcard~~ smart card from the configuration information, said configuration information allowing the radio to communicate in the wireless environment, wherein said configuration information includes ~~at least a verification~~ security authorization and mission requirements of a user.

25. (Cancelled).